Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims

- (currently amended) A sensor for sensing an analyte comprising:
 an enclosure having an input and an output, the enclosure including a permeable
 - an enclosure naving an input and an output, the enclosure including a permeasure wall;
 - a first light source having a first wavelength at or near where the analyte absorbs

 maximally, the first light source adjacent a first end of the enclosure;
 - a second light source having a second wavelength that the analyte does not absorb

 maximally, the second light source adjacent the first end of the enclosure;
 a light detector adjacent a second end of the enclosure; and
 - wherein the enclosure is adapted to contain a first fluid.
- 2. (canceled)
- (previously presented) The sensor of claim 1, wherein the permeable wall can permit entry of a second fluid into the enclosure.
- (original) The sensor of claim 3, wherein: the first fluid is a reagent; and the second fluid is an analyte.
- 5. (original) The sensor of claim 3, further comprising a processor connected to the light detector.

- (original) The sensor of claim 5, further comprising an indicator connected to the processor.
- 7. (original) The sensor of claim 6, further comprising a container connected to the input of the enclosure.
- 8. (original) The sensor of claim 7, further comprising a valve connected to the output of the enclosure.
- 9. (original) The sensor of claim 8, further comprising a second container connected to the output of the enclosure.
- 10-37. (canceled)
- 38. (currently amended) A sensor for sensing an analyte comprising:
 - a tubular permeable membrane enclosure having an input and an output;
 - a first light source having a first wavelength, the first light source proximate to a
 first end of the enclosure, wherein the first wavelength is absorbed by the
 analyte:
 - a second light source having a second wavelength, the second light source

 proximate to the enclosure, wherein the second wavelength is a reference

 wavelength;
 - a light detector proximate to a second end of the enclosure; and wherein the enclosure is capable of containing a fluid.
- 39. (canceled)

- 40. (previously presented) The sensor of claim 38, wherein the membrane can permit entry of analyte into the enclosure.
- 41. (original) The sensor of claim 40, wherein the membrane can permit entry of reagent into the enclosure.
- 42. (original) The sensor of claim 41, further comprising a processor connected to the light detector.
- 43. (original) The sensor of claim 42, further comprising an indicator connected to the processor.
- 44. (original) The sensor of claim 43, further comprising a container connected to the input of the enclosure.
- 45. (original) The sensor of claim 44, further comprising a valve connected to the output of the enclosure.
- 46. (original) The sensor of claim 45, further comprising a second container connected to the output of the enclosure.
- 47-48. (canceled)
- 49. (previously presented) The sensor of claim 38, further comprising a flow sensor in the enclosure.
- 50. (currently amended) The sensor of claim 38, wherein each of the first and second light sources is a laser type of light source.

- 51. (new) The sensor of claim 1, further comprising a controller configured to pulse the first and second light sources.
- 52. (new) The sensor of claim 38, further comprising a controller configured to pulse the first and second light sources.